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(71) Applicant (for all designated States except US): **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; 1111 Franklin Street, Oakland, CA 94607-5200 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WITZTUM, Joseph, L.** [—/US]; 6912 Ofria Court, San Diego, CA 92120 (US). **CHANG, Mi-Kyung** [—/US]; 10860 Caminito Arcada, San Diego, CA 92131 (US). **SILVERMAN, Gregg, J.** [—/US]; 571 Hidden Ridge Court, Encinitas, CA 92024 (US). **SHAW, Peter, X.** [—/US]; 10860 Caminito Arcada, San Diego, CA 92131 (US). **BINDER, Christoph** [—/US]; 390 Stratford Court, Apt. 2, Del Mar, CA 92014 (US).

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(54) Title: METHODS AND COMPOSITIONS FOR TREATING ATHEROSCLEROSIS

(57) Abstract: During the progression of atherosclerosis, autoantibodies are induced to epitopes of oxidized low-density lipoprotein (OxLDL), and active immunization of hypercholesterolemic mice with OxLDL ameliorates atherogenesis. The present studies have identified anti-OxLDL autoantibodies that share complete genetic and structural identity with antibodies produced by anti-phosphorylcholine B-cell clone, T15.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11333

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 39/60, 39/395

US CL : 424/130.1, 184.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/130.1, 184.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST, DIALOG, EMBASE, MEDLINE, BIOSIS, CHEMAB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | KEARNEY, J.F. Immune Recognition of OxLDL in atherosclerosis, J. Clinical Investigation, June 2000, Vol 105, No.12, p. 1683-168 (entire document)   | 1, 3-7, 9-14, 26-32   |
| ---        |   | 18-25                 |
| Y          |   |                       |
| X          | SHAW, P.X. et al. Natural antibodies with the T15 idiotype may act in atherosclerosis, apoptotic clearance, and protective immunity, J. Clinical Investigation, June 2000, Vol 105, No. 12, p.1731-1740 (entire document) | 1-14, 26-32           |
| ---        |   | 18-25                 |
| Y          |   |                       |
| Y          | US 5,858,682 (GRUENWALD et al) 12 January 1999 (12.01.1999), entire document  | 18-25                 |

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☐ See patent family annex.

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Yunsoo Kim  
Telephone No. 571-272-1600